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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service

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September 21, 1987

National Toxicology Program; Chemicals (8) Nominated for Toxicological Studies; Request for Comments

SUMMARY: On July 29, 1987, the Chemical Evaluation Committee (CEC) of the **National Toxicology Program** (NTP) met to review eight chemicals nominated for toxicology studies and to recommend the types of studies to be performed. With this notice, the NTP solicits public comments on the eight chemicals listed herein.

FOR FURTHER INFORMATION CONTACT: Dr. Victor A. Fung, Chemical Selection Coordinator, **National Toxicology Program**, Room 2B55, Building 31, National Institutes of Health, Bethesda, Maryland 20892, (301) 496-3511.

TEXT: SUPPLEMENTARY INFORMATION: As part of the chemical selection process of the National Toxicology program, nominated chemicals which have been reviewed by the NTP Chemical Evaluation Committee (CEC) are published with request for comment in the Federal Register. This is done to encourage active participation in the NTP chemical evaluation process, thereby helping the NTP to make more informed decisions as to whether to select, defer or reject chemicals for toxicology study. Comments and data submitted in response to this request are reviewed and summarized by NTP technical staff, are forwarded to the NTP Board of Scientific Counselors for use in their evaluation of the nominated chemicals, and then to the NTP Executive Committee for decision-making. The NTP chemical selection process is summarized in the Federal Register, April 14, 1981 (46 FR 21828), and also in the NTP FY 1986 *Annual Plan*, pages 201-203.

On July 29, 1987, the CEC met to evaluate eight chemicals nominated to the NTP for toxicological studies. The following table lists the chemicals, and their Chemical Abstract Service (CAS) registry numbers.

Chemical	CAS No.
1. 1,4-Butanediol	110-63-4
2. Diethylene glycol	111-46-6
3. Dipropylene glycol	25265-71-8
4. Conjugated estrogens	
5. Oxymetholone	434-07-1
6. Treosulfan	299-75-2
7. Carbon disulfide	75-15-0
8. Methylene diphenyl diisocyanate	101-68-8

Dipropylene glycol was nominated for subchronic studies; the remaining seven chemicals were nominated for carcinogenicity testing.

Of the eight chemicals, three have been previously selected for study by the NTP. Diethylene glycol was nonmutagenic in the *Salmonella* microsomal assay. Short term *in vivo* reproductive toxicity and continuous breeding studies were also conducted on this chemical.

Carbon disulfide was nonmutagenic in the *Salmonella* microsomal assay in studies conducted by two independent laboratories. A 90-day inhalation study and conventional teratology studies have been performed on carbon disulfide. A National Cancer Institute/NTP gavage carcinogenicity study in mice and rats was conducted in the early 1970s. However, the data were judged to be inadequate due to the poor survival of the animals, and no technical report was written. Carbon disulfide is currently on test for chromosomal aberrations and sister chromatid exchanges in Chinese hamster ovary cells.

Methylene diphenyl diisocyanate was nonmutagenic in the *Salmonella* microsomal assay. A gavage subchronic study was completed for this chemical but a chronic study was not initiated due to technical difficulties.

Interested parties are requested to submit pertinent information. The following types of data are of particular relevance:

- (1) Modes of production, present production levels, and occupational exposure potential.
- (2) Uses and resulting exposure levels, where known.
- (3) Completed, ongoing and/or planned toxicologic testing in the private sector including detailed experimented protocols and results, in the case of completed studies.
- (4) Results of toxicological studies of structurally related compounds.

Please submit all information in writing by thirty days after date of publication. Any submissions received after the above date will be accepted and utilized where possible.

Dated: September 16, 1987.

David P. Rall,

Director, National Toxicology Program.

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